

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

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To:

HARNESS, DICKY & PIERCE
ST. LOUIS, MISSOURI

**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**
(PCT Rule 43bis.1)

see form PCT/ISA/220

7377-000111 /POA

3 Mo Resp. to Written Opinion
due 8/13/05

Date of mailing
(day/month/year) see form PCT/ISA/210 (second sheet)

Applicant's or agent's file reference see form PCT/ISA/220		FOR FURTHER ACTION See paragraph 2 below	
International application No. PCT/US2004/039956	International filing date (day/month/year) 24.11.2004	Priority date (day/month/year) 25.11.2003	
International Patent Classification (IPC) or both national classification and IPC H05B3/46, B29C45/27			
Applicant WATLOW ELECTRIC MANUFACTURING COMPANY			

1. This opinion contains indications relating to the following items:

- Box No. I Basis of the opinion
- Box No. II Priority
- Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- Box No. IV Lack of unity of invention
- Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- Box No. VI Certain documents cited
- Box No. VII Certain defects in the international application
- Box No. VIII Certain observations on the international application

2. **FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA:



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10/580726

1AP20 Rec'd PCT/PTO 24 MAY 2006

International application No.
PCT/US2004/039956

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

Box No. I Basis of the opinion

1. With regard to the **language**, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
 - This opinion has been established on the basis of a translation from the original language into the following language , which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).
2. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
 - a. type of material:
 - a sequence listing
 - table(s) related to the sequence listing
 - b. format of material:
 - in written format
 - in computer readable form
 - c. time of filing/furnishing:
 - contained in the international application as filed.
 - filed together with the international application in computer readable form.
 - furnished subsequently to this Authority for the purposes of search.
3. In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additional comments:

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Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially applicable have not been examined in respect of:

- the entire international application,
 claims Nos. 1

because:

- the said international application, or the said claims Nos. relate to the following subject matter which does not require an international preliminary examination (specify):

- the description, claims or drawings (*indicate particular elements below*) or said claims Nos. 1 are so unclear that no meaningful opinion could be formed (specify):

see separate sheet

- the claims, or said claims Nos. are so inadequately supported by the description that no meaningful opinion could be formed.
- no international search report has been established for the whole application or for said claims Nos.
- the nucleotide and/or amino acid sequence listing does not comply with the standard provided for in Annex C of the Administrative Instructions in that:

the written form has not been furnished

does not comply with the standard

the computer readable form has not been furnished

does not comply with the standard

- the tables related to the nucleotide and/or amino acid sequence listing, if in computer readable form only, do not comply with the technical requirements provided for in Annex C-bis of the Administrative Instructions.

- See separate sheet for further details

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**Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or
industrial applicability; citations and explanations supporting such statement**

1. Statement

Novelty (N)	Yes: Claims	2-18
	No: Claims	
Inventive step (IS)	Yes: Claims	
	No: Claims	2-18
Industrial applicability (IA)	Yes: Claims	2-18
	No: Claims	

2. Citations and explanations

see separate sheet

Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

see separate sheet

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AUTHORITY (SEPARATE SHEET)**

International application No.

PCT/US2004/039956

Re Item III

Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

The wording of claim 1 is vague and fully unclear and leaves the reader in doubt as to the meaning of the technical features to which it refers, thereby rendering the definition of the subject-matter of said claims unclear, Article 6 PCT.

In case of step a. it is unclear what the word 'indirectly' means in this context.

In case of step b. it is unclear what the 'attachment area 33' is and it is unclear where it is positioned.

The whole claim is also not clear, as the designation refers to a 'method for the attachment of an electrical lead wire', and it is not clear how the steps a. and b. would lead to any sort of attachment, as no welding, glueing or similar step is used.

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claims 2 to 18 does not involve an inventive step in the sense of Article 33(3) PCT.

The document D1 discloses a method for the attachment of an electrical lead wire on a heating element wherein a contact material is thermally sprayed on the surface of the heating element and a contact point is created(see §[0024], §[0027] and § [0028]). The document D1 additionally discloses a heating channel element produced according to this method.

In claims 2 to 18, slight constructional changes from the known device or slight process changes from the known method are defined which come within the scope of the customary practice followed by persons skilled in the art, especially as the advantages

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thus achieved can readily be foreseen. Consequently, the subject-matter of claims 2 to 18 lacks an inventive step.

Re Item VIII

Certain observations on the international application

The wording of claims 2 to 18 is also not fully clear and leaves the reader in doubt as to the meaning of the technical features to which it refers, thereby rendering the definition of the subject-matter of said claims unclear, Article 6 PCT. The main reason is that as already mentioned for claim 1, it is unclear if the welding step is or not essential for the definition of the claimed invention.